

AGENCY OF NATURAL RESOURCES
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
WASTEWATER MANAGEMENT DIVISION
103 SOUTH MAIN STREET
WATERBURY, VERMONT 05671-0405

FACT SHEET

April 2010

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
PERMIT TO DISCHARGE TO WATERS OF THE UNITED STATES

FILE NO.: 11-25

PROJECT ID NO.: RU99-0348

NPDES NO: VT0020141

PERMIT NO.: 3-0363

NAME AND ADDRESS OF APPLICANT:

Shelburne Limestone Corporation
PO Box 359
Essex Junction, VT 05453-359

NAME AND ADDRESS OF FACILITY WHERE DISCHARGE OCCURS:

South Wallingford Quarry
Route 7
Wallingford, Vermont

RECEIVING WATERS AND CLASSIFICATION: Otter Creek: Class B. Class B waters are suitable for bathing and recreation; irrigation and agricultural uses; good fish habitat; good aesthetic value; acceptable for public water supply with filtration and disinfection.

I. Proposed Action, Type of Facility, and Discharge Location

The above named applicant has applied to the Vermont Department of Environmental Conservation for to renewal a permit to discharge into the designated receiving waters. The facility is engaged in quarrying operations.

The complete application, draft permit, and other information are on file and may be inspected at the VTDEC, Wastewater Management Division, Waterbury Office. Copies will be made at a cost based on the previous Secretary of State Official Fee Schedule for Copying Public Records from 8:00 am to 4:30 pm, Monday through Friday.

II. Description of Discharge

This permit authorizes the discharge of 1.0 MGD maximum day to Otter Creek of treated dewatering water and process wastewater from the South Wallingford Quarry. A quantitative description of the discharge in terms of significant effluent parameters is presented in section IV. below.

III. Limitations and Conditions

The effluent limitations of the permit, the monitoring requirements, and any implementation schedule (if required), may be found on the following pages of the permit:

Effluent Limitations: Page 2

Monitoring Requirements: Page 2 and 3

IV. Permit Basis and Explanation of Effluent Limitation Derivation

History & Summary

Shelburne Limestone Corporation currently owns and operates a quarry located at off Route 7, South Wallingford, VT. The quarry produces limestone. Groundwater seepage and stormwater must be removed from the quarry and is discharged to Otter Creek. The discharge is currently regulated under the terms and conditions of the Discharge Permit No. 3-0363, last issued April 24, 2007.

The floor of the quarry is graded such that all wastewater flows to a large sump located at the northeast corner of the quarry for treatment, the water treated via a settling sump is then pumped at a controlled rate to a pipe located on the east side of the quarry and is discharged to Otter Creek. This water can also be used for dust control within the quarry when necessary.

On December 11, 2009, Shelburne Limestone Corporation applied to renew this permit. Having completed its review of the application, the Department has made a determination to renew the discharge permit for this discharge. Following is a discussion of the specific factors considered in the renewal of this permit.

Effluent Limitations

Flow

The draft permit contains flow effluent limitation of 1.0 MGD, daily maximum. This limitation is unchanged from the permit that currently authorizes this discharge. Flow monitoring is required daily. This discharge is intermittent based on the groundwater seepage and stormwater entering the quarry.

Turbidity

The permit contains a turbidity limitation of 10 NTU, annual average, during dry weather conditions. This limitation is based on Section 3-04.B of the Vermont Water Quality Standards effective January 1, 2008. Turbidity sampling is required once per month. This sampling frequency has been modified from the permit that currently authorizes this discharge to reflect the January 1, 2008 Water Quality Standards.

Total Suspended Solids (TSS)

The permit contains a 10 mg/l, daily maximum effluent limitation for Total Suspended Solids. TSS sampling is required once per month. This limitation and sampling frequency is unchanged from the permit that currently authorizes this discharge.

pH

The permit contains a pH limitation of 6.5 to 8.5 SU. This limitation is unchanged from the current permit and is based on Section 3-01.B.9 of the Vermont Water Quality Standards effective January 1, 2008. pH sampling is required once per month. This limitation and sampling frequency is unchanged from the permit that currently authorizes this discharge.

Special Conditions

Condition I.A.2.a requires that water recycling/reuse be maximized to reduce the volume of water discharged.

Condition I.A.2.b requires that the pump intake be sufficiently above the top layer of any settled material in the quarry sump to prevent the pumping of settled solids.

Condition I.A.2.c requires that the sump be maintained as necessary to maintain compliance with effluent limitations and the dates of solids removal noted on the WR-43 Discharge Monitoring Report.

Condition I.A.2.d requires that any material removed from the sump be disposed of in accordance with applicable state and federal regulations.

Condition I.A.2.e requires that the area downgradient of the outfall be regularly inspected for signs of erosion and prompt action taken to correct any of erosion resulting from the discharge.

Condition I.A.2.f requires that a spill prevention and control plan be implemented to prevent any fuel, chemical spills, or leaks from entering the wastewater treatment system.

Total Metals and Perchlorate Analyses

Concentrations of heavy metals and perchlorate have been detected with some quarry discharges in this state. Therefore the permit contains a condition which requires that this discharge be sampled for the following total metals: antimony, arsenic, cadmium, chromium, copper, iron, lead, nickel, selenium, silver, and zinc; and perchlorate by June 30, 2011. Based upon the results of these analyses or any other similar analyses conducted on this discharge, the permit may be amended to require additional analyses or establish specific effluent limitations.

V. Procedures for Formulation of Final Determinations

The public comment period for receiving comments on this draft permit is from April 19, 2010 through May 19, 2010. During this time interested persons may submit their written views on the draft permit. All written comments will be retained by the Department and considered in the formulation of the final determination to issue, deny or modify the draft permit. The period of comment may be extended at the discretion of the Department.

Written comments should be sent to:

Vermont Agency of Natural Resources
Department of Environmental Conservation
Wastewater Management Division - Sewing Building

103 South Main Street
Waterbury, VT 05671-0405

Comments may also be faxed to: 802-241-2596 or submitted by e-mail using the e-mail comment provisions included at <http://www.anr.state.vt.us/dec/ww/Drafts.htm>

Any interested person or groups of persons may request or petition for a public hearing with respect to this draft permit. Any such request or petition for a public hearing shall be filed within the public comment period described above and shall indicate the interest of the party filing such request and the reasons why a hearing is warranted.

The Department will hold a hearing if there is significant public interest in holding such a hearing. Any public hearing brought in response to such a request or petition will be held in the geographical area of the draft discharge or other appropriate area, at the discretion of the Department and may, as appropriate, consider related groups of draft permits. Any person may submit oral or written statements and data concerning the draft permit at the public hearing. The Department may establish reasonable limits on the time allowed for oral statements and may require the submission of statements in writing. All statements, comments, and data presented at the public hearing will be retained by the Department and considered in the formulation of the final determination to issue, deny, or modify the draft permit.